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1) Examiner B.L. Sisson/Art Unit 1634	USPTO	703-746-5020	703-308-3978
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From: Michael L. Goldman	Date: September 30, 2002	No. of Pages: 3 (including this page)	200701/1061

Comments: U.S. Patent Application Serial No. 09/757,992, filed January 10, 2001 for DETECTION OF SINGLE NUCLEOTIDE POLYMORPHISMS claiming priority of Provisional Application Serial No. 60/179,844, filed February 2, 2000
Inventors: Schultz et al.
Nixon Peabody Reference No: 200701/1061

Dear Examiner Sisson:

As we discussed, enclosed are my proposed claim changes in response to the outstanding office action for Serial No. 09/757,992. Please review them and let me know what you think.

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DRAFT

Please amend claims 1, 18, and 20 as follows:

1. (Amended) A method of detecting single nucleotide polymorphisms comprising:

providing a target nucleic acid molecule;

providing an oligonucleotide primer complementary to a portion of the target nucleic acid molecule;

providing a nucleic acid polymerizing enzyme;

providing a plurality of types of nucleotide analogs;

blending the target nucleic acid molecule, the oligonucleotide primer, the nucleic acid polymerizing enzyme, and the nucleotide analogs[, each type being present in a first amount,] to form an extension solution where the oligonucleotide primer is hybridized to the target nucleic acid molecule to form a primed target nucleic acid molecule and the nucleic acid polymerizing enzyme is positioned to add nucleotide analogs to the primed target nucleic acid molecule at an active site;

extending the oligonucleotide primer in the extension solution by using the nucleic acid polymerizing enzyme to add a nucleotide analog to the oligonucleotide primer at the active site to form an extended oligonucleotide primer, wherein the nucleotide analog being added is complementary to the nucleotide of the target nucleic acid molecule at the active site;

[determining] measuring the amounts of each type of the unreacted nucleotide analogs remaining in the extension solution after said extending[, each type being a second amount];

comparing the [first and second] amounts of each type of the unreacted nucleotide [analog] analogs remaining in the extension solution after said extending to the amounts of each type of the nucleotide analogs in a control sample which did not undergo said step of extending; and

identifying the type of nucleotide analog [where the first and second amounts differ] which is present in the extension solution after said extending in an amount less than in the control sample as the nucleotide added to the oligonucleotide primer at the active site so that the nucleotide at the active site of the target nucleic acid molecule is determined.

18. A method according to claim 3 further comprising:

evaporating [water from] the extension solution[, leaving] to leave a [residue] residual material and [sonicating] reconstituting the [residue] residual material in water after said extending and before the electrospraying.

20. A method according to claim 1 [further comprising:

amplifying] , wherein said providing a target nucleic acid molecule comprises:

providing the target nucleic acid molecule [by] in a sample and

subjecting the sample to a polymerase chain reaction [prior to said blending] to amplify the nucleic acid molecule.

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